

Guidelines for the Use of Antiretroviral Agents in Pediatric HIV Infection

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Maternal HIV Testing and Identification of Perinatal HIV Exposure

(Last updated December 24, 2019; last reviewed December 24, 2019)

Panel's Recommendations

- HIV testing is recommended as standard of care for all sexually active women and should be a routine component of preconception care (All).
- All pregnant women should be tested as early as possible during each pregnancy (see <u>Laboratory Testing for the Diagnosis of HIV Infection: Updated Recommendations</u> and <u>Recommended Laboratory HIV Testing Algorithm for Serum or Plasma Specimens</u> from the Centers for Disease Control and Prevention [CDC]) (All).
- Partners of pregnant women should be encouraged to undergo HIV testing when their status is unknown (AIII).
- Repeat HIV testing in the third trimester is recommended for pregnant women with negative initial HIV antibody tests who are at increased risk of acquiring HIV, including those who are receiving care in facilities that have an HIV incidence of ≥1 case per 1,000 pregnant women per year, those who reside in jurisdictions with elevated HIV incidence, or those who reside in states that require third-trimester testing (see Revised Recommendations for HIV Testing of Adults, Adolescents, and Pregnant Women in Health-Care Settings from CDC) (AII).
- Expedited HIV testing should be performed during labor or delivery for any woman with undocumented HIV status; testing should be available 24 hours a day, and results should be available within 1 hour (AII). If results are positive, intrapartum antiretroviral (ARV) prophylaxis should be initiated immediately (AI), and infants should receive an ARV regimen that is appropriate for infants who are at higher risk of perinatal HIV transmission as soon as possible, pending results of supplemental HIV testing (AII). The mother should not breastfeed unless supplemental HIV testing is negative (AII). See Antiretroviral Management of Newborns with Perinatal HIV Exposure or HIV Infection for guidance.
- Women who were not tested for HIV before or during labor should undergo expedited HIV antibody testing during the immediate
 postpartum period (or their newborns should undergo expedited HIV antibody testing) (AII). If the results for the mother
 or infant are positive, an appropriate infant ARV drug regimen should be initiated immediately, and the mother should not
 breastfeed unless supplemental HIV testing is negative (AII). See Antiretroviral Management of Newborns with Perinatal HIV
 Exposure or HIV Infection for guidance.
- Results of maternal HIV testing should be documented in the newborn's medical record and communicated to the newborn's primary care provider (AIII).
- HIV testing is recommended for infants and children in foster care and adoptees for whom maternal HIV status is unknown (AIII).

Rating of Recommendations: A = Strong; B = Moderate; C = Optional

Rating of Evidence: I = One or more randomized trials in children[†] with clinical outcomes and/or validated endpoints; I* = One or more randomized trials in adults with clinical outcomes and/or validated laboratory endpoints with accompanying data in children[†] from one or more well-designed, nonrandomized trials or observational cohort studies with long-term clinical outcomes; II = One or more well-designed, nonrandomized trials or observational cohort studies in children[†] with long-term outcomes; II* = One or more well-designed, nonrandomized trials or observational studies in adults with long-term clinical outcomes with accompanying data in children[†] from one or more similar nonrandomized trials or cohort studies with clinical outcome data; III = Expert opinion

Diagnosis of HIV Infection in Infants and Children (Last updated

December 24, 2019; last reviewed December 24, 2019)

Panel's Recommendations

- Virologic assays (i.e., HIV RNA or HIV DNA nucleic acid tests [NATs]) that directly detect HIV must be used to diagnose HIV in infants and children aged <18 months with perinatal and postnatal HIV exposure; HIV antibody tests should not be used (AII).
- HIV RNA or HIV DNA NATs are generally equally recommended (All).
- An assay that detects HIV non-B subtype viruses or Group O infections (e.g., an HIV RNA NAT or a dual-target total DNA/RNA test) is recommended for use in infants and children who were born to mothers with known or suspected non-B subtype virus or Group O infections (AII). If a mother of an infant acquired HIV outside of the United States and has had repeated undetectable HIV RNA by standard testing, consultation with a clinical virologist on more sensitive HIV nucleic acid testing may be indicated.
- Virologic diagnostic testing (see Figure 1 and 2) is recommended for all infants with perinatal HIV exposure at the following ages:
 - 14 to 21 days (AII)
 - 1 to 2 months (AII)
 - 4 to 6 months (AII)
- For infants who are at higher risk of perinatal HIV transmission, additional virologic diagnostic testing is recommended at birth (AII) and at 2 to 6 weeks after cessation of antiretroviral prophylaxis (BII).
- A positive virologic test should be confirmed as soon as possible by repeat virologic testing (AII).
- Definitive exclusion of HIV infection in nonbreastfed infants is based on two or more negative virologic tests, with one obtained at age ≥1 month and one at age ≥4 months, or two negative HIV antibody tests from separate specimens that were obtained at age ≥6 months (AII).
- Some experts confirm the absence of HIV at age 12 to 18 months in children with prior negative virologic tests by performing an HIV
 antibody test to document loss of maternal HIV antibodies (BIII).
- Since children aged 18 to 24 months with perinatal HIV exposure occasionally have residual maternal HIV antibodies, definitive exclusion or confirmation of HIV infection in children in this age group who remain HIV antibody-positive should be based on an HIV NAT and antibody retesting at 24 months (AII).
- Diagnostic testing in children with nonperinatal exposure only or in children with perinatal exposure aged >24 months relies primarily on the use of HIV antibody (or antigen/antibody) tests.
- When acute HIV infection is suspected, additional testing with an HIV NAT may be necessary to diagnose HIV infection (AII).

Note: The <u>National Clinician Consultation Center</u> provides consultations on issues related to the management of perinatal HIV infection (1-888-448-8765; 24 hours a day, 7 days a week).

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Clinical and Laboratory Monitoring of Pediatric HIV Infection

(Last updated April 14, 2020; last reviewed April 14, 2020)

Panel's Recommendations

- Absolute CD4 T lymphocyte (CD4) cell count and plasma HIV RNA (viral load) should be measured at the time of HIV diagnosis
 and, if a child is <u>not</u> started on antiretroviral therapy (ART) after diagnosis, this monitoring <u>should be repeated</u> at least every 3
 to 4 months thereafter (AIII).
- Absolute CD4 count is recommended for monitoring immune status in children of all ages, with CD4 percentage as an alternative for children aged <5 years (All).
- Antiretroviral (ARV) drug-resistance testing is recommended at the time of HIV diagnosis, before initiation of therapy, in all ART-naive patients (AII). Genotypic resistance testing is preferred for this purpose (AIII).
- After initiation of ART, or after a change in ARV regimen, children should be evaluated for clinical adverse effects and should receive support for treatment adherence within 1 to 2 weeks; laboratory testing for toxicity and viral load response is recommended at 2 to 4 weeks after treatment initiation (AIII).
- Children on ART should be monitored for therapy adherence, effectiveness, and toxicities routinely (every 3-4 months) (All*).
- Additional CD4 count and plasma viral load monitoring should be performed to evaluate children with suspected clinical, immunologic, or virologic deterioration or to confirm an abnormal value (AIII). CD4 count can be monitored less frequently (every 6–12 months) in children and adolescents who are adherent to therapy, who have sustained virologic suppression and CD4 count values that are well above the threshold for opportunistic infection risk, and who have stable clinical status (AII). Viral load measurement every 3 to 4 months is generally recommended to monitor ART adherence and disease progression (AIII).
- Phenotypic resistance testing should be considered (usually in addition to genotypic resistance testing) for patients with known
 or suspected complex drug resistance mutation patterns, which generally arise after a patient has experienced virologic failure
 on multiple ARV regimens (CIII).
- The absence of detectable resistance to a drug does not ensure that use of the drug will be successful, as mutations may not be
 detected once the drug has been discontinued. A history of all previously used ARV agents and available resistance test results
 must be reviewed when making decisions regarding the choice of new ARV agents (AII).
- Viral co-receptor tropism assays are recommended whenever a CCR5 antagonist is being considered for treatment (Al*). The
 use of tropism assays should also be considered for patients who demonstrate virologic failure while receiving therapy that
 contains a CCR5 antagonist (Al*).

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When to Initiate Therapy in Antiretroviral-Naive Children (Last

updated April 14, 2020; last reviewed April 14, 2020)

Panel's Recommendations

- Antiretroviral therapy (ART) should be initiated in all infants and children with HIV infection (AI for children aged <3 months, AI* for older children).
 - Rapid ART initiation (defined as initiating ART immediately or within days of diagnosis), accompanied by a discussion of the importance of adherence and provision of subsequent adherence support, is recommended for all children with HIV.
- If a child with HIV has not initiated ART, health care providers should closely monitor the virologic, immunologic, and clinical status at least every 3 to 4 months (AIII).

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What to Start: Regimens Recommended for Initial Therapy of Antiretroviral-Naive Children (Last updated April 14, 2020; last reviewed)

April 14, 2020)

Panel's Recommendations

- The selection of an initial regimen should be individualized based on several factors, including the characteristics of the proposed
 regimen, the patient's characteristics, drug efficacy, potential adverse effects, patient and family preferences, and the results of
 viral resistance testing (AIII).
- For treatment-naive children, the Panel on Antiretroviral Therapy and Medical Management of Children Living with HIV (the Panel) recommends initiating antiretroviral therapy with three drugs: a dual-nucleoside/nucleotide reverse transcriptase inhibitor backbone plus an integrase strand transfer inhibitor, a non-nucleoside reverse transcriptase inhibitor, or a boosted protease inhibitor (AI*).
- Table 7 provides a list of Panel-recommended regimens that are designated as *Preferred* or *Alternative*; recommendations vary by a patient's age, weight, and sexual maturity rating.

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Antiretroviral Management of Newborns with Perinatal HIV Exposure or HIV Infection (Last Updated April 14, 2020; last reviewed April 14, 2020)

Panel's Recommendations

- All newborns who were perinatally exposed to HIV should receive postpartum antiretroviral (ARV) drugs to reduce the risk of perinatal transmission of HIV (AI).
- Newborn ARV regimens administered at doses that are appropriate for the infant's gestational age should be initiated as close to the time of birth as possible, preferably within 6 to 12 hours of delivery (AII).
- A newborn's ARV regimen should be determined based on maternal and infant factors that influence the risk of perinatal transmission of HIV (AII). The uses of ARV regimens in newborns include:
 - ARV Prophylaxis: The administration of one or more ARV drugs to a newborn without documented HIV infection to reduce the risk of perinatal acquisition of HIV.
 - Presumptive HIV Therapy: The administration of a three-drug ARV regimen to newborns who are at highest risk of perinatal acquisition of HIV. Presumptive HIV therapy is intended to be preliminary treatment for a newborn who is later documented to have HIV, but it also serves as prophylaxis against HIV acquisition for those newborns who are exposed to HIV in utero, during the birthing process, or during breastfeeding and who do not acquire HIV.
 - **HIV Therapy:** The administration of a three-drug ARV regimen at treatment doses (called antiretroviral therapy [ART]) to newborns with documented HIV infection (see Diagnosis of HIV Infection in Infants and Children).
- A 4-week zidovudine (ZDV) ARV prophylaxis regimen can be used in newborns whose mothers received ART during pregnancy
 and had sustained viral suppression near delivery (defined as a confirmed HIV RNA level <50 copies/mL) and for whom there are
 no concerns related to maternal adherence (BII).
- Newborns at higher risk of perinatal acquisition of HIV should initiate presumptive HIV therapy (see Table 12 for recommended regimens). Newborns at higher risk of HIV acquisition include those born to women with HIV who:
 - · Have not received antepartum or intrapartum ARV drugs (AI), or
 - · Have received only intrapartum ARV drugs (AI), or
 - Have received antepartum ARV drugs but who did not achieve viral suppression near delivery (All), or
 - Have primary or acute HIV infection during pregnancy (AII), or
 - Have primary or acute HIV infection while breastfeeding (AII).
- Newborns of women with unknown HIV statuses who test HIV positive on expedited testing during labor or shortly after birth should initiate an ARV regimen (either presumptive HIV therapy or two-drug ARV prophylaxis, based on clinician assessment of risk) (AII). If supplemental testing is negative, the ARV regimen should be discontinued (AII).
- · For newborns with HIV infection, ART should be initiated (AI).
- The use of ARV drugs other than ZDV, lamivudine, and nevirapine cannot be recommended for any indication in premature newborns (<37 weeks gestational age) because of lack of dosing and safety data (BII).
- Providers with questions about ARV management of perinatal HIV exposure should consult the National Perinatal HIV Hotline (1-888-448-8765), which provides free clinical consultation on all aspects of perinatal HIV, including newborn care (AIII).

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Specific Considerations in Antiretroviral Therapy Use in Adolescents with HIV (Last updated April 14, 2020; last reviewed April 14, 2020)

Panel's Recommendations

- All adolescents living with HIV should receive maximally suppressive antiretroviral (ARV) therapy; this is urgent for those who are sexually active, considering pregnancy, or pregnant (AII).
- ART regimen selection should include consideration of the adolescent's individual needs and preferences (AIII). See What to Start and Management of Children Receiving Antiretroviral Therapy for more information.
- All adolescents with HIV should be screened for mental health disorders and substance use disorders (All).
- Reproductive health issues—including pregnancy intentions, contraceptive methods, safer sex techniques to prevent
 transmission of HIV and other sexually transmitted infections, pre-exposure prophylaxis for partners, pregnancy planning, and
 preconception care—should be discussed regularly (AI).
- Providers should be aware of potential interactions between specific ARV medications and hormonal contraceptives that could
 lower contraceptive efficacy (All*).
- Pediatric and adolescent care providers should prepare adolescents for the transition into adult care settings (AIII).

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† Studies that include children or children/adolescents, but not studies limited to post-pubertal adolescents

Adherence to Antiretroviral Therapy in Children and Adolescents Living with HIV (Last updated April 14, 2020; last reviewed April 14, 2020)

Panel's Recommendations

- Strategies to maximize adherence should be discussed before and/or at initiation of antiretroviral therapy (ART) and again before changing regimens (AIII).
- Adherence to therapy must be assessed and promoted at each visit, and strategies to maintain and/or improve adherence must be continually explored (AIII).
- In addition to viral load monitoring, at least one other method of measuring adherence to ART should be used (AIII).
- Once-daily antiretroviral regimens and regimens with a low pill burden should be prescribed whenever feasible (All*).

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Management of Medication Toxicity or Intolerance (Last updated

April 14, 2020; last reviewed April 14, 2020)

Panel's Recommendations

- In children who have severe or life-threatening toxicity (e.g., a hypersensitivity reaction), all antiretroviral (ARV) drugs should be stopped immediately (AIII). Once symptoms of toxicity have resolved, ARV therapy should be resumed with substitution of a different ARV drug or drugs for the offending agent(s) (AII*).
- When modifying therapy because of toxicity or intolerance to a specific drug in children with virologic suppression, changing
 one drug in a multidrug regimen is permissible; an agent with a different toxicity and side-effect profile should be chosen (AI*).
- The toxicity and the medication presumed to be responsible should be documented in the medical record and the caregiver and
 patient should be advised of the drug-related toxicity (AIII).
- In general, dose reduction is not recommended for management of ARV toxicity (All*).

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Management of Children Receiving Antiretroviral Therapy (Last

updated April 14, 2020; last reviewed April 14, 2020)

In the United States, the majority of children living with HIV are receiving antiretroviral therapy (ART), making treatment-experienced children the norm. Providers may consider antiretroviral (ARV) regimen changes for the following reasons:

- *Treatment simplification:* Modifying ARV regimens in children who are currently receiving effective ART in order to simplify the regimen.
- *Treatment optimization:* Increasing the treatment potency or barrier to resistance of an effective, but older or potentially fragile, regimen or improving the adverse event profile.
- *Toxicity management:* Recognizing and managing ARV drug toxicity or intolerance (see <u>Management of Medication Toxicity or Intolerance</u>).
- *Treatment failure:* Recognizing and managing treatment failure (see <u>Recognizing and Managing Antiretroviral Treatment Failure</u>).

Modifying Antiretroviral Regimens in Children with Sustained Virologic Suppression on Antiretroviral Therapy

Panel's Recommendations

- Children who have sustained virologic suppression on their current antiretroviral (ARV) regimen should be regularly evaluated
 for opportunities to change to a new regimen that facilitates adherence, simplifies administration, increases ARV potency or
 barrier to resistance, and decreases the risk of drug-associated toxicity (AII).
- Before making changes to a patient's regimen, clinicians must carefully consider the patient's previous regimens, past episodes of ARV therapy failure, prior drug resistance test results, drug cost, the patient's insurance coverage, and the patient's ability to tolerate the new drug regimen (AIII). Archived drug resistance can limit the antiviral activity of a new drug regimen.
- Children should be carefully monitored after a change in treatment. Viral load measurement is recommended 2 weeks to 4 weeks after a change in a child's ARV regimen (BIII).

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Recognizing and Managing Antiretroviral Treatment Failure (Last updated April 14, 2020; last reviewed April 14, 2020)

Panel's Recommendations

- The causes of antiretroviral (ARV) treatment failure—which include poor adherence, drug resistance, poor absorption of
 medications, inadequate dosing, and drug-drug interactions—should be assessed and addressed (AII).
- Perform ARV drug-resistance testing when virologic failure occurs, while the patient is still taking the failing regimen (AI*) (see
 <u>Drug-Resistance Testing</u> in the Adult and Adolescent Antiretroviral Guidelines for more information).
- ARV regimens should be chosen based on treatment history and drug-resistance testing, including both past and current
 resistance test results (AI*).
- The new regimen should include at least two, but preferably three, fully active ARV medications; the assessment of anticipated ARV activity should be based on treatment history and past resistance test results (All*).
- The goal of therapy following treatment failure is to achieve and maintain virologic suppression, which is defined as a plasma viral load that is below the limits of detection as measured by highly sensitive assays with lower limits of quantification of 20 copies/mL to 75 copies/mL (AI*).
- When complete virologic suppression cannot be achieved, the goals of therapy are to preserve or restore immunologic function
 (as measured by CD4 T lymphocyte values), prevent clinical disease progression, and prevent the development of additional
 drug resistance that could further limit future ARV drug options (AII).
- Children who require evaluation and management of treatment failure should be managed by or in collaboration with a pediatric HIV specialist (AI*).

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Antiretroviral Treatment Interruption in Children with HIV (Last updated April 14, 2020, last reviewed April 14, 2020)

Panel's Recommendations

• Outside the context of clinical trials, structured interruptions of antiretroviral therapy are not recommended for children (AII).

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